Volume 135, Number 27 Thursday, October 15, 2015



The 2.009 Silver Team uses its zipline-based contraption to cross the lilypads for the 2015 2.009 Build Challenge on Killian Court on Friday, October 9

Can MIT divest while accepting oil money? An activist weighs in.

The Tech sits down with a Fossil Free MIT student leader

By Emma Bingham and Katherine Nazemi

STAFF REPORTERS

In anticipation of President L. Rafael Reif's upcoming announcement about MIT's climate action plan, The Tech spoke with Geoffrey Supran, a graduate student in materials science, about his work on the MIT Climate Change Conversation Committee and student group Fossil Free MIT. We asked about his expectations for the announcement, his thoughts around divestment, his own research, and how he became a climate change activist.

The Tech: What do you hope to see from President Reif's announcement?

Supran: What I hope to see is what dozens of student groups have been calling for now, which is a bold, multifaceted climate action plan. In particular, we're calling for three things: divestment from fossil fuels, reinvestment in campus sustainability, and a reinvention of the approach that MIT takes toward climate change. We anticipate that the president will heed the recommendations of his own committee - of which I was a part — and launch, I hope, the most ambitious, comprehensive, and inclusive climate action plan that any university has ever seen... There is quite a scary lack of awareness as to the political realities of climate change. We feel MIT at the moment is sitting on the sidelines,

watching the greatest catastrophe in human history play out, and we need it to step up to the plate and be the global leader that it has the potential to be.

The Tech: By political realities do you mean inertia, lack of political action?

Supran: If you look at the scientific literature, you learn that the bottleneck to tackling climate change is no longer technological capacity of policy know-how — it's political will and social will. Right now, MIT pays grad students like me to develop these technologies, but at the same time it's investing hundreds of millions of dollars into an industry whose business

Supran, Page 2

Hearing procedures to change as reports of sexual assault rise

Increase thought to indicate a larger fraction of assaults are being reported

EXECUTIVE EDITOR

A year after MIT released the results from its first community sexual assault survey, the Institute has implemented many of its accompanying recommendations and has begun launching new initiatives.

The Community Attitudes on Sexual Assault (CASA) survey, spearheaded by Chancellor Cynthia Barnhart PhD '88 and geared toward understanding how sexual assault affects the MIT community, showed that 17 percent of female undergraduate respondents had experienced behaviors defined as sexual assault at MIT. However, only 5 percent of sexually assaulted students said that they had reported their experience to the Institute.

Since the survey was launched in April of 2014, it appears that a greater number of cases have been reported to the Title IX Office, which handles gender discrimination and sexual

misconduct cases, and to Violence Prevention & Response (VPR), an on-campus resource which helps prevent and respond to sexual assaults, among other issues.

The Title IX Office reported a 29 percent increase (69 to 89) in cases from academic years 2013-2014 to 2014-2015, while VPR saw a 53 percent increase (75 to 115) in cases during the same time frame. These figures include any encounters with these offices, and not only those related to sexual assault.

According to the 2015 MIT Police Annual Report, 14 on-campus rapes were reported to the MIT Police in 2014, up from 10 in 2013 and 7 in 2012.

"One clear sign that our focus on education is having an impact is that we are seeing more students than in previous years coming forward to report unwanted sexual behavior," Barnhart told the MIT news office. "We think the increase likely indi-

Sexual assault, Page 10

IN SHORT

The Annual Bike Auction will take place today in the parking lot at 290 Albany St. Cash and check will be accepted. The auction will begin at noon.

Flu shots will be administered tomorrow (Friday) in W20.

ESP Security is recruiting volunteers to help facilitate Splash the weekend before Thanksgiving. Sign up at https://esp.mit.edu/security

Family weekend is coming up Octo-

The Gordon Engineering Leadership Program's office will be moving to 35-433 beginning today.

A carton of milk at Random Hall turns 21 next Tuesday. Students are reminded not to drink it.

Send news information and tips to news@tech.mit.edu.

Course 16 alumna named director of MIT Medical

Cecilia Warpinski Stuopis '90 will assume her new role as director of MIT Medical before the end of the year, MIT announced

"Dr. Stuopis is a respected physician leader and clinician with a strong clinical informatics background and a proven record of success in managing various aspects of a diverse health care organization," Executive Vice President and Treasurer Israel Ruiz wrote in an email to the MIT Community this week.

Stuopis currently serves as vice president at Dartmouth-Hitcock health system in New Hampshire and works as an adjunct associate professor at Dartmouth.

"I am excited to be returning

to MIT as the medical director for MIT Medical," she told the MIT news office. "I am looking forward to collaborating with the providers, staff, and community at large to improve the health of the entire MIT population in meaningful and measurable ways. Together, we should be able to innovate for the better health of our community — much as MIT is an innovator in education and research"

Stuopis's duties at Medical will include evaluating health care services and assuring compliance.

The appointment is the result of a search which began in

Medical, Page 11



The Revere Piano Quartet performed at Killian Hall Oct. 11 with Jin-Kyung Joen on the violin, Ronald Gorevic on the violin and viola, MIT Emerson Instructor Eugene Kim on the cello, and Tae Kim at the piano.

WOMEN'S TENNIS UNDEFEATED

After a successful regular season, the team will next compete Friday. **SPORTS, p. 12**

LIQUID ON MY LAPTOP

And lessons learned in a lonely computer lab. CAMPUS LIFE, p. 5

WHAT DO YOU DO FOR FUN?

How one successful MIT applicant responded CAMPUS LIFE, p. 5



PETER PAN PREQUEL

The screenwriters could have borrowed some creativity from the special effects department. ARTS, p. 6

ISRAEL IS BEING TERRORIZED

And the media is too afraid to say it. OPINION, p. 4

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THURSDAY, OCTOBER 15, 2015 2 THE TECH

Supran says the risk to research funding worth it

Says that fossil fuel companies cite collaboration at MIT when defending their inaction

Supran, from Page 1

plan is fundamentally incompatible with the science of climate change and has a vested interest in maintaining the status quo.

The Tech: How can MIT's involvement complement what's going on in the political realm?

Supran: This institute wields a megaphone to public and political opinion like no other university in the world. It is the forerunner when it comes to climate science and technology. If we take actions that shout through that megaphone, we can actually shift the sociopolitical landscape and create breathing room for the political leadership and legislation that will be necessary to get meaningful climate

The Tech: How do you see divestment fitting into what MIT

Supran: It's aligning our money with our mission and our morals. It's morally right, but it's also scientifically consistent. It's financially prudent, and also politically effective. It's the political effectiveness that makes it so key. I've been working on renewables since I was 16, the whole university is trying to get these technologies out into the world, but we're basically fighting climate change with one hand through grad students like me and feeding it with the other hand by investing in an industry whose bottom line depends on protecting business as usual. We're funding renewables with one hand, and funding an industry that fights renewables with the other hand.

The Tech: What's your perspective on groups like the MIT **Energy Initiative that benefit from** funding from oil companies?

Supran: I was an Energy Initiative Fellow my first year — my lab gets almost all its money from the oil industry to do solar research. I believe there's an equal chance that the fossil fuel industry will need to increase its renewables research investments rather than decrease them if MIT shows how seriously it's committed to climate action.

There's demonstrable proof for this — when ExxonMobil has refused to take action against climate change, it specifically cited its affiliation with MIT. If in the future, MIT says we're more serious about taking climate action, [ExxonMobil] is going to have to point to work that it does in places like MIT.

Personally I think it's a gamble we have to take. There comes a time when moral considerations and the need to protect our generation and future generations have to come before a potential financial risk.

I think it's also worth mentioning that the call for divestment is not radical at all in that it's consistent with the science for climate hange mitigation. The divestment movement derives from peer-reviewed science.

The Tech: Do you think MIT should continue to accept research funding from companies like Eni, if the Institute moves forward with divestment?

Supran: Firstly, to be clear, divestment is to do with MIT's investments, not its research funding. Fossil Free MIT isn't making any commentary at all on research funding and where it comes from.

Personally, I think doing renewables research using industry funding is totally different to profiting from the fossil fuel industry's drilling and exploration of hydrocarbons that the world can never safely afford to burn. Clean energy research at places like MIT benefits from the minuscule fraction of fossil fuel money that actually goes toward transforming rather than trashing the planet. So yes, I think that if those companies are willing to part with a tiny bit of their profits — even if only for PR reasons - MIT should take advantage of it and do as much good with it as

But also remember that some unknown fraction of the fossil fuel industry's research funding at MIT in fact goes into the development of core fossil fuel development and extraction technologies, not to clean energy. I'd point to a quote from the CEO of Eni, Paolo Scaroni, who said, "Cooperation between MIT and Eni can give us phenomenal results."...

Again, in no way am I or Fossil Free MIT telling anyone at MIT what they can and can't research, but I know that a lot of people myself included - find it very troubling that MIT is on the one hand researching how to dig up more fossil fuels, and on the other how to save the climate that those fossil fuels are wrecking.

Also, there's clear evidence to show that fossil fuel companies don't invest in MIT because MIT invests in them. They invest in us because it looks good. By the fossil fuel industry's own admission, divestment is already working to stigmatize their business practices that are incompatible with the science of climate change mitigation. And there are countless examples that when these companies are worried about their image, they point to the research they fund at places like MIT. So as divestment continues to create the political breathing room for climate leadership and a renewables roll-out, I only expect our clean energy research funding from the fossil fuel industry to grow.

Finally, as I mentioned in our committee's report, there are clear paths to fossil fuel divestment that would allow MIT to work in good faith with fossil fuel companies to solve this crisis together. If a fossil fuel company demonstrates its seriousness to adapt its business plans to mitigate climate change, MIT need not divest from it. But as of yet, no fossil fuel company anywhere in the world has come close.

"It's aligning our money with our mission and our morals. It's morally right."

The Tech: You mentioned you're a youth delegate to the UN. You're part of FFMIT, you've written for the Guardian and the Huffington Post. How did you get

Supran: Divestment. I got into science and technology when I was a kid, when I had what I still have now, which is this deep belief in the power of science to make the world a better place. But there comes a point where you sit in the lab, and you're trying to do all this work, and you realize it's being under mined by the very Institute that's paying you to do the work.

The most tangible proof that $\lceil the \rceil$ divestment movement is working is students like me. As President Reif mentioned in his commencement speech to the Class of 2015, the Climate Change Conversation simply wouldn't have happened without divestment. My career, my life trajectory, have completely been changed by divestment.

[Divestment] reframes the climate narrative...All the focus has been on guilt tripping people who have no power, which simply means that the industry on the other end keeps pushing fossil fuels through the pipeline, and we have no alternative. Overwhelmingly, Americans prefer clean energy over fossil fuels, but they just have no choice because they're stuck in a system dominated by big oil politics in DC...

I was literally just sitting in a lab and being introduced to this idea, and suddenly seeing the bigger picture in which my own research fits and MIT's research fits. Within three years, everything's changed. My entire career has changed. It's kind of remarkable. The campaign as a whole has gone from a couple college campuses three years ago to 500 around the world. It's gone from \$13 million divested to \$2.6 trillion — it's a now-significant portion of global GDP. It's gone from a bunch of tree-hugging hippies talking to each other to a political reframing

If you follow climate politics, it's very quickly changing the entire ball game. You saw that Shell went to the arctic to do drilling research. They pulled out, and everyone knows it's because of kids like you and me who keep pestering them until it becomes politically untenable for them to continue those business practices.

The Tech: Why do you think it took so long to reframe the discussion?

Supran: I think it was partly the role of industry, but not entirely. I think it was a failure on multiple fronts by multiple institutions. I think the reason politicians have always gravitated away from it is probably because of the influence of corporate lobbying.

The Tech: Could you talk about your work on the climate conversation committee?

Supran: The charge was to survey the entire MIT community and figure out the ways to tackle climate change that the community wanted to pursue, and identify other ways that we thought were promising. It began by various forms of surveys to try to get input from the community. But ultimately, it wasn't like we were restricted to only reflecting the most popular ideas from the community.... Overall, in a sentence, the proposal was for extremely bold and multifaceted action, which is exactly the thing that all of us students are trying to hold the president to right now.

The Tech: Was there debate within the committee on what to include in the report, debate over the merits of different solutions?

Supran: Sure, yeah, all of them. I basically lost a year of my life. Yeah, it was very intensive, very rigorous, and people brought various different perspectives to the table. I couldn't go through all of them, but I think in the end the report pretty fairly reflected the actions that as a whole we could all get behind. There was a real desire that at the end of the day, everyone on the committee signed off on the report,

The Tech: What were some of the aspects of the report that generated the most debate?

Supran: I'm not sure if I should answer that question. I'm afraid.

The Tech: Looking forward to the next few weeks, are there events nlanned mate Countdown Rally]?

Supran: Well, we'll have to see... .I think there's a strong confidence in the community that President Reif is going to heed the calls of his own committee and thousands of people in the community and take serious climate action....And I think that if he were to turn a blind eye to this unified call for climate action, I think he could expect to see serious community resistance. What form that will take, we'll have to find out. You know, I have to be careful about what we're planning to do over the coming months.... This administration won't get away with just tokenistic action or just diplomatic platitudes. We're going to hold them to something higher. As far as I'm concerned, we're not going anywhere, ever, as long as this crisis keeps growing, which it unfortunately will.

The Tech: Could you also talk a bit about your own research?

Supran: A lot of what [our group] focus[es] on is using nanostructured materials called quantum clusters of semiconducting atoms with a diameter of about five or ten nanometers, just like a soccer ball but about a hundred million times smaller. They have these amazing optical properties where, as you change their size on the nanoscale, they can absorb different colors of sunlight. You can optimize these materials to make solar cells that absorb broad parts of the solar spectrum using ultrathin, ultracheap layers. The vision is a next generation of solar cells which are large area and low cost.

"Even in scientific communities there's a lack of awareness of the astonishing urgency."

What I'm actually working on right now is essentially the physics flipside. With the solar cells you take sunlight in and spit electricity out; with the LEDs that I work on now, you put electricity in and get light out. The solar cells work on the supply side, but on the demand side 21 percent of global electricity goes towards lighting. Right now, an incandescent light bulb is 95 percent inefficient. So when you turn it on, 95 percent of the power just comes out as heat. It's a better heater than it is a light source. The idea is that if we can make low cost, high-efficiency lighting, we can reduce the usage of electricity

The Tech: Have you found challenges communicating your work and climate science to all the different audiences and groups that you're trying to mobilize?

Supran: It's surprising that even in scientific communities there's a lack of awareness of the astonishing urgency of the climate crisis. I didn't realize it until about 3 or 4 years ago, when divestment reframed it and focused my attention a bit, and I started reading the literature. I don't think many people realize that we literally only have as many years you can count on your fingers to completely reinvent the global economy....

I think that it can be hard at a technocratic institution like MIT for us to recognize the broader moral and sociopolitical environment in which the science we work on sits. Sometimes I think people can see a graph but not feel its power, and that's the challenge we really have. How do you turn numbers and facts and figures into moral courage to take action?...I think that maybe there's a stereotype or that people perceive us as in some way radical, but really I'm just a physicist and a materials scientist with no previous background in environmentalism, politics... I don't even like politics, vou know?

But... if I came here to make a difference with my science, then if I know a little more science and I realize both how urgent this problem is and where the real bottlenecks are, I can't just ignore it and go on working in my lab because it's more convenient and it's more comfortable. Well, we can, but it's basically an abnegation of our responsibility as scientists and a failure of MIT's mission, which is the betterment of humankind. It's just trying to inspire that sense of the betterment of humankind, that sense of passion in young people who understandably are really busy and just need to do exams and get through classes and everything.

The Tech: Why don't you think more students have that perspective or have that drive to see where the bottleneck is to impact?

Supran: I think that they do. I think it's partly like I was saying, MIT is a busy, hectic place, and people are just trying to keep their heads above water. But I think the sheer fact that we've seen the sup-

dots. They're small, soccer-ball-like port of thousands of people in the community in various open letters and petitions tells me that there is a strong desire to rally together behind our science and our futures. I think that it's easy to feel isolated or powerless, and I think most of us did...To some degree I wouldn't fully agree with the premise that people aren't becoming more passionate because, like we discussed, this whole climate change discussion at MIT arose because of our campaign in just a couple of years, so clearly it's doing something. We could always be doing more, but we're busy too, so... [laughs]

The Tech: What have you learned, or what's surprised you, going from physics or research to organizing a movement?

Supran: I think it's how much change you can effect when you put your mind to it...what I've come to realize from organizing is essentially the sentiment that Margaret Mead expressed, which is "never doubt that a small group of thoughtful, committed citizens can change the world."

That's been the amazing thing, that a small group of students who've grown over time have been able to move this mountain that is MIT, and now we sit here on the brink of what I think will be historic MIT climate action, you know, just because of a few Google docs and late-night email threads. That's kind of amazing to me, and it wasn't something that I was at all connected with before, it's been a very quantum step for me...

I think the real big insight that I had... was this insight that the bottleneck is the social and political will. I really wasn't aware of that impediment before. Without drawing too many generalizations, I think that most people working here in their labs believe that if they build the best solar cell, it will get out there in the world and immediately have an impact, but that's just not the case. The solar cells we needed ten, twenty years ago were invented thirty years ago and they're just sitting, waiting to be used. That realization really shook me to my core and made me realize that analytically if we want to solve this problem we have to think about the politics as well as the technology, even if that puts us out of our comfort zone just a little

The Tech: Have you seen your own research applied in the out-

Supran: Well, in small ways. Some of the technologies we work on get turned into products by spin-off companies from my advisor's group. This is kind of the "reinvent" part that we're pushing. MIT is a powerhouse for renewable energy research, and no one is saying that we should back off that In fact what we're is that we should double down on it and really focus on how to take those technologies into the real world, and that means more thinking about deployment, about real world policy. And I think that that's something very slowly the Institute is moving towards, and I hope it will be part of the announcement in a few weeks.

The Tech: Do you think you'll get to a point in your career where you go back to focusing purely on research, or do you think you'll have a foot in both worlds?

Supran: I don't think I'll ever go 100 percent back. I enjoy working at the interface between the two. I think it makes us more powerful, effective organizers when we're in touch with the science and we understand the technologies we're talking about. So I enjoy moving between the two. That's probably what I'm going to be doing next.

This interview, which was conducted partly in person and partly by email, has been edited for brevity and clarity.

THURSDAY, OCTOBER 15, 2015 THE TECH 3

WEATHER

Brace for a brief blast of cold

By Vince Agard STAFF METEOROLOGIST

The Institute will get its first real dose of chilly fall weather this weekend as an Arctic air mass ushers in some of the coldest temperatures this area has seen in months. The frigid air will begin to make its intrusion after the passage of a cold front tomorrow afternoon. The frontal passage will be accompanied by a shift in the wind from southwesterly to westerly, and an increase in wind speed. After the front moves out, a mass of anomalously cold air will make its way down from Canada through New England

over the course of the weekend. The result will be that by Sunday, low temperatures will be below 40°F (4°C) and the high may not even reach 50°F (10°C). The last times that low and high temperatures that cold were recorded in Boston were May 2 and June 2, respectively. By Sunday night, temperatures could even threaten to break the freezing mark for the first time since April 2. The predicted temperatures are also particularly low compared to the normal high and low of 61°F (16°C) and 46°F (8°C) for this time of year. It will likely take until Tuesday of next week to return to warmer, more seasonable temperatures.

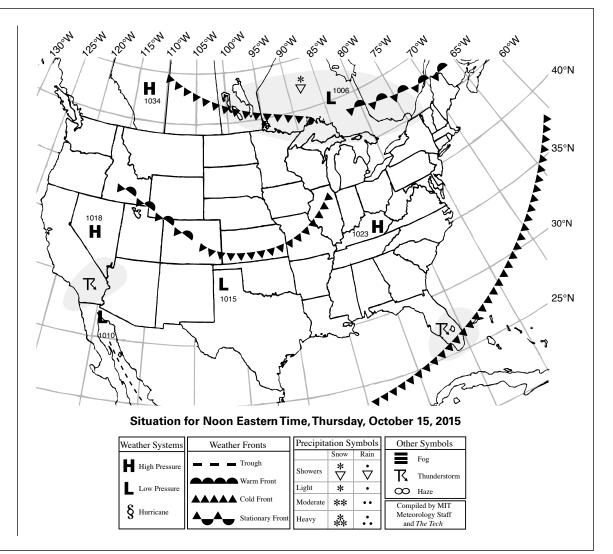
Extended Forecast

Today: Sunny, high 62°F (17°C). Winds W at 5-10 mph. **Tonight**: Clear, low 50°F (10°C). WInds SW at 5-10 mph.

Tomorrow: Partly cloudy with a slight chance of showers, high 65°F (18°C). Winds W at 10-15 mph, becoming windier in the afternoon and evening.

Saturday: Partly cloudy and breezy, highs in the mid 50s °F (13°C).

Sunday: Partly cloudy, highs around 50°F (10°C).



Solution to Bossy



Solution to Saturday

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MIT Federal Credit Union Seeks Candidates for 2016 Board of Directors Election

Our members own MIT Federal Credit Union, and with that our member-elected, volunteer Board of Directors formulate and support decisions with our members' and the MIT Community's interest at heart.

MIT Federal Credit Union's nominating committee is currently seeking credit union members who are interested in serving on the Board of Directors. Three 3-year terms and one 2-year term on the board will be open for the 2016 election in the spring.

The application deadline is Friday, November 20, 2015.

Visit *mitfcu.org/election* to learn more about the MITFCU Board and director responsibilities.



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November 18, 2015

For further information: Contact your academic administrator; and/or the following: http://www.act.org/goldwater/ or http://web.mit.edu/engineering/goldwater.html

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When terror hits close to home

Misleading headlines distort the truth

By Suri Bandler
STAFF COLUMNIST

For the past few weeks, I've been glued to my phone. I check it first thing when I wake up in the morning, while I'm eating, while I'm walking down the Infinite, in class, while I'm working on problem sets, and before I go to sleep. But I'm not checking fantasy football stats. I'm checking for reports of another terror attack and word that my little brother is safe.

My brother is currently studying abroad in Israel, and his school is located near the Western Wall in Jerusalem's Old City. Every single day without fail he texts me about another Palestinian terror attack – usually stabbings – directed against civilians. Last week, his teacher was one of the victims, stabbed in the neck for no reason other than being Jewish.

Since Oct. 1, there have been over 30 terror attacks carried out by Palestinian terrorists against Israelis, not including rocket attacks. Here is an abbreviated timeline:

—Oct. 1: Two parents were shot dead in front of their four young children. Fatah, the political party of Palestinian Authority's president Mahmoud Abbas, claimed responsibility for the murders. (This same "moderate" group is responsible for negotiating peace with Israel.)

—Oct. 7: A terrorist stole a gun, broke into a woman's home in Kiryat Gat, and tried to murder the family who lived there. (This happened right near my best friend's school. I frantically messaged her to make sure she was OK, and the hours before she answered were terrifying.)

—Oct. 7: A 25-year-old man was stabbed and badly wounded by a Palestinian terror-

ist in Petach Tikva, where my cousins live. Thankfully, a bystander tackled the terrorist and held him down until the police could reach the scene.

—Oct. 9: In Jerusalem, two American teenagers were beaten and stabbed after taking a wrong turn into an Arab neighborhood.

—Oct. 11: A suicide bomber, with her child in her car, detonated a bomb that wounded her daughter and a police officer.

When someone gets stabbed, you would think that it is clear who the victim is and who the perpetrator is, right? Wrong. To my astonishment, the headlines reporting the recent terror attacks in Israel blur the victims with the attackers, the murdered with the murderers. On Oct. 3, an article published by the BBC was titled "Palestinian shot dead after Jerusalem attack kills two." The headline obscured who was being attacked and who was the attacker, and it completely failed to mention that the Palestinian died while stabbing members of a family, murdering the father and another man.

Here is an even more outrageous example. *The Independent* published an article titled "Israeli security forces kill boy, 16." When I first read that headline, I thought that a poor boy was killed without reasonable cause, and images of excessive force and police brutality came to mind. But in reality, that "boy" mentioned in the headline stabbed two elderly Jews on their way home, and the 16-year-old terrorist was killed to stop his stabbing rampage.

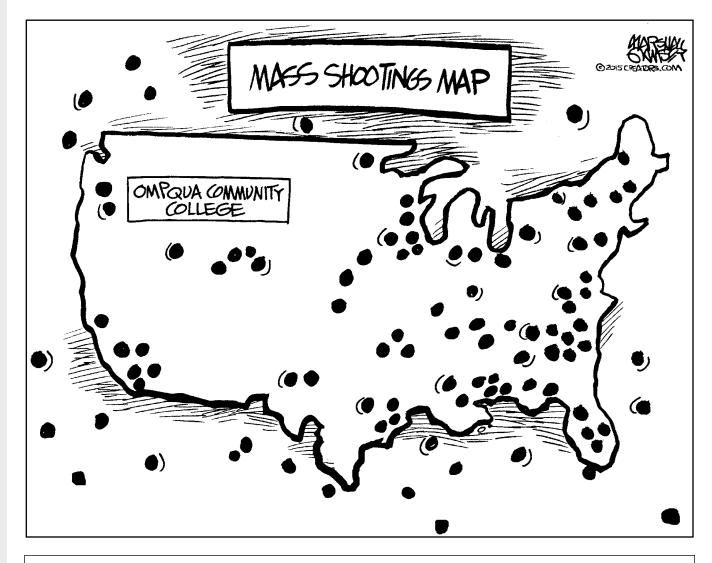
Can you imagine the mainstream media reporting on the Sandy Hook school shooting with headlines like "20-year-old shot dead in attack at elementary school"?

The problem isn't restricted to the media. When UN Secretary General Ban Ki-Moon condemned Israel for the "killings [of four Palestinians]" and demanded that the government of Israel conduct an investigation, he failed to mention the fact that those Palestinians died in attacks that killed four Israelis. He condemned Israel but failed to condemn the attacks on Israeli citizens that made these defensive acts necessary.

One might expect that Israel's supposed peace partner, Mahmoud Abbas, would demand that his people stop these vicious crimes against innocents. But this is not so. Not only did Abbas's party proudly commit two of the murders, as mentioned above, but Abbas claimed that "we [Palestinians] are working to spread the culture of peace and coexistence between the people in our region." Then he turned around and justified the murders of unarmed civilians by saying, "every drop of blood spilled in Jerusalem is pure, every shahid [martyr] will reach paradise, and every injured person will be rewarded by God."

Surely, though, the terrorists are just fringe members of Palestinian society, and as a whole, such violence is rejected? Not necessarily. Many Palestinian civilians celebrated the attacks in various ways, by passing out candies in the street, by a mother naming her newborn after a killed terrorist, and by firing firecrackers in celebration of the murders.

It is time for all civilians to be able to walk in Jerusalem without the fear of being stabbed to death. And it is time for the Palestinian leadership, the international media, and the U.S. government to take a moral stand and unequivocally call terror what it is: terror.



OPINION POLICY

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Falling bottles and FOMO troubles

Lessons learned in a laptop-less week

By Chloe Yang

Unlike most horror stories, 'twas not dark and stormy when disaster struck one mild Friday afternoon. It might as well have been, though — the magnitude of my technological catastrophe should by all rights have triggered a swirling mass of rain and hail. Instead, I was left to gape at the aftermath of my colossal mistake to a backdrop of sun and blue sky.

ate action, all external traces of water were wiped away

"It should be fine now. It's just water," someone reassured me, gazing doubtfully at my screen.

Everyone returned to their positions, bent over their notebooks and tauntingly un-waterlogged devices. I attempted to do the same, but after two minutes of hesitant laptop use, during which time the trackpad gave up on life and my screen

FOMO is that anxiety that if you miss even a single pset party, your friends will have developed a

I'd been working on a pset with some suitemates when I decided to take a sip of water from my bottle. This was a physical operation I'd successfully completed on innumerable occasions in the past, so I had no reason to believe my body would fail me. I was wrong. As I finished quenching my thirst, my hand decided to lose its grip on reality and on my water. I watched as my nearly full bottle relieved itself of its contents; I watched, in what felt like slow motion, as my laptop's keyboard soaked up the water.

A hush fell over the general psetting chatter — it lasted for a heartbeat — and then all witnesses leapt into action. For a moment, it was as if I were operating in the center of a medical drama. One friend shoved paper towels into my hand, another started patting at my keys with a napkin. After this initial flurry of desper-

transformative bond transcending space and time.

began to lag, I called it quits. IS&T it was. I can live without a laptop for a week. I may worry about the well-being of my devices, but in this case, the crux of my catastrophe did not lie exclusively in technological woes. Rather, as I watched the stream of water assault my keys, FOMO (fear of missing out) leapt to the forefront of my mind. I had adopted the habit of working on all my psets with my suitemates in our lounge; without my laptop, however, I would forced to work in the nearest Athena clusters. Alone.

Most people have become entangled in FOMO's cruel claws at some point in life. FOMO is that niggling anxiety that if you miss a single social gathering, even one as casual as a pset party, your friends will have developed (at best) a few new inside jokes or (at worst) an unbreakable and transformative bond that transcends

space and time. All of this, of course, while vou were off buying a burrito at Anna's, or taking a bathroom break, or working at an Athena cluster while your laptop sits in

If I could shake myself of this horrendously selfish fear, I would do so immediately. Alas, life does not allow me to pick and choose my vices. Freshman year has made me particularly vulnerable to such anxieties. I feel the need to be making best friends in these first few months, and I don't want to be left behind.

With a dead laptop, though, I had no choice. It was Athena clusters or bust.

That first night was the hardest. Tearing myself away from the group of psetters was a belabored and painfully prolonged process. First, I had to have dinner with my friends in the suite (most of us do not have meal plans); I couldn't deny myself basic human needs, could I? Then, of course, I had to try some of the cookies a suitemate baked — how could I not pull my weight and help clean his tray of sugary goodness?

I watched as my laptop's keyboard soaked up the water. A hush fell over the psetting chatter.

Needless to say, by the time I made it to my dorm's library, it was much later than it should have been. I flopped into a chair, inserted earbuds, logged in, and resigned myself to a lonely night of frustration. Initially, I had a hard time concentrating on my pset. Once the feeling of being alone had fully sunk in, though, I started to make real progress. Free of distractions, the next few hours flew by, and I sashayed out of the library with a nearly finished pset. When I returned to my suite, I was greeted by smiles and friends who, lo and behold, still remembered who I was, even after my long trek back from the Athena cluster two floors down.

Psets are made to be collaborative; I know I could not survive MIT if I tried to complete all of my psets solo. Group work is - dare I say it - fun, and it makes homework feel like less of a burden. However, in the rush of freshman friend-making and FOMO, I lost sight of an equally necessary method: working alone. Thanks to my dead laptop, I am no longer as averse to the idea of psetting away from my friends. Though it may be hard to believe at times, I will not be left behind or forgotten so easily. I will not become friendless and nameless after puzzling through problems independently. It is hard to isolate myself, but I need the time to recharge and struggle alone.

My laptop is the true MVP of this story. It died for me, yes, but my solitude was not a eulogy — it was a revival. Only its temporary death could shake me from the trance of FOMO and open my eyes to the quiet beauty of being alone.

Chloe Yang is a member of the Class of

THE FIRST YEAR

Green on the green

Now is the time to try something new

By Zachary Collins

I really don't have any extraordinary talents. I can't throw a 90 mph fastball, I have the vocals of a dying cat, and I can guarantee you that there were multiple revisions before this article even made it close to the paper. Needless to say, I was a little intimidated when figuring out what clubs I wanted to join here at MIT.

One of the activities that popped out at me was club Ultimate Frisbee. I saw the team's table at the activities midway, thought it would be a great way to both stay active and have a lot of fun, and decided to add myself to the mailing list. I had played it a few times for fun, but had never even thought about playing it competitively and certainly wasn't good. Even throwing the disc was a struggle, and I'm not going to lie, it sometimes still is. However, this was something I wanted to do. I decided that it couldn't hurt to show up to the first practice, even though I had little idea what to

When I got to Briggs Field on the first day, you could immediately tell who the veterans were - the ones already on the field flinging discs with a precision that I can only dream of. I realized that I had a very long way to go if I were to ever do the kinds of things that they were doing. Once everyone was all set up, the coach gathered us around so that he and the captains could give their first speech of the year. They talked about how competitive they managed to be last year, and how they hoped to accomplish even more this season. This only made me more excited at the opportunity of joining but nervous that a lack of prior experience could make things unreasonable.

Once our coach directed the other freshmen and me — those new to the team my doubts started to fade away.

"Some of you may have played com-

petitive ultimate before and some of you haven't. That's fine. Our goal is to put in work and by the end of the year make you kick-ass ultimate players," he announced.

I'm not the only one who has to go through a learning curve, I realized. Sure, the veterans were very good but that doesn't change the fact that the team is a community of players interested in something they all want to do for fun and get better at.

We spent the day doing various drills that, while new to me, were manageable. They didn't expect us to be launching discs like the captains and certainly didn't anticipate us being able to run a fully functioning ultimate offense. They were patient, allowing us to go out and really have a good time.

I may have been (and still am) one of the less talented players on the team, but that's pretty insignificant. As long as I'm willing to work hard, they're willing to help me get better — a trait that the entire MIT

community embraces. This has allowed the sport to grow into something we can all

There are so many people on this campus who can do so many amazing things, but there are also many people interested in trying something new. Don't let your background prevent you from exploring. You probably won't start off impressing anybody, but if you really want to learn, the people here are willing to help. So if there's a club, program, or organization you've been eyeing, but you aren't quite sure if you're competent enough for it, put your doubts aside. Give it a try; you can always quit if you don't like it. You may just find a group of people willing to work with you, and an activity that may stick with you for the rest of your time here.

You really don't have to be terrific to

Zachary Collins is a member of the Class

MIT APPLICATION ESSAYS THAT WORKED

'My love for people is the best part of myself'

This is part of a series of MIT application essays submitted by students who were later admitted to the Institute. The following prompts are from the 2014-15 admis-

Prompt

We know you lead a busy life, full of activities, many of which are required of you. Tell us about something you do for the pleasure of it. (100)

Response

Thankfully, I don't have the attention span or the tolerance to invest time into an undertaking that I don't find worthwhile and fun. While I am involved in numerous activities ranging from violin to debate, I never expected to look forward to my four-hour shifts as a waitress at a retirement home. I have a community of grandparents who recognize me as "Smiley Judy" and a family of coworkers who relish the food with me after Sunday brunch. Along with the fast-paced table juggling, the silly and serious interactions I have at my workplace are my ultimate source of pleasure.

Prompt

Although you may not yet know what you want to major in, which department or program at MIT appeals to

you and why? (100)

Response

Some of my hardest decisions take place in the booth of a restaurant, so choosing a major has been an absolutely agonizing process for me. I fancied subject areas from English to chemistry, but I finally (hesitantly) decided on double majoring in mathematics and economics and minoring in French. My most concrete interest, mathematics, originates from my introduction to calculus and the realization that the breadth and depth of the mathematical world extend beyond straight numerical calculations. I believe that MIT's superior mathematics program will add unimaginably new dimensions to this magical realm that I have only just discovered.

What attribute of your personality are you most proud of, and how has it impacted your life so far? This could be your creativity, effective leadership, sense of humor, integrity, or anything else you'd like to tell us about. (200-250)

Response

My love for people is the best part about myself. There is no better feeling than the happiness I find in meeting

new people and creating connections with them. My extroverted personality is the root of much of my success in leadership, presentations, and networking. I naturally reach out to people, and as a result, I am able to accomplish projects like establishing a mentoring program for the French Honor Society and a threefold increase in membership for the Asian American Club. However, my outgoing personality made the most memorable impact at the "Conversation with Michelle Obama," an event for which I was nominated to attend. Through Google Hangout, several American cities were able to connect to Michelle Obama in South Africa. When the Kansas City group was asked about technology integration in education, the students all froze underneath the limelight. In a burst of courage, I blurted a couple of words and consequently received the microphone to continue. At that moment, it didn't matter that there were thousands of people around the world including Michelle Obama listening; it was just me and my string of thoughts. I was the only person in Kansas City to speak that day.

I distinguish myself with my enthusiasm, and I easily see myself thriving as a part of the tight-knit community, the risk-taking hacking culture, and the passionately nerdy student population of MIT. After all, I still keep in touch with my lime-green carded tour guide.

—Judy Wang '19

CAMPUS LIFE CAMPUS



MOVIE REVIEW

An eye-catching trip to Neverland

Hugh Jackman and Levi Miller star in the Peter Pan prequel, Pan

Levi Miller as Peter in Warner Bros. Pictures' and RatPac-Dune Entertainment's action adventure Pan, a Warner Bros. Pictures release.

By Tara Lee

ASSOCIATE ARTS EDITOR

The story of Peter Pan is as ageless as Peter himself — what began as a 1904 play by J.M. Barrie is still culturally relevant a century later. There are musicals, movies, video games, and an entire Disney franchise based on the boy who wouldn't grow up. Maybe it's because we'll always cherish the idea of eternal youth, or maybe we just really like pirates.

Pan is the latest film to take on the legend of Peter Pan. But instead of retelling the story that audiences know, the film goes back in time to World War II in London, and reveals the story of how Peter Pan came to be. Levi Miller stars as Peter, and we follow him as he is whisked away from his orphanage by pirates and forced to mine for fairy dust in Neverland. As Peter learns more about his mother and the past, he teams up with a tribe of warriors, including Tiger Lily (Rooney Mara), and sets out to defeat the leader of the pirates, Blackbeard (Hugh Jackman).

With beautiful special effects, and a colorful set, the film is certainly pleasing to the eye. As Tigerlily discloses the past events of Neverland to Peter, animated wooden figures emerge from a tree in a fluid sequence to complement Tigerlily's narrative. In the war scenes between the pirates and the warriors, a burst of color erupts from the muzzle every time a gun is shot (making it the first time I'll ever describe a war scene as "gorgeous"). I'll have to admit that it gave me slight anxiety, though, since it reminded me of the ever-so-popular Color Run, in which people throw packets of colored cornstarch at you while you trudge along a 5K course.

Jackman does a fine job in his role of the ruthless pirate leader, Blackbeard. Commanding attention in all of his scenes, his charisma and hearty laugh are ever-present in Neverland. However, the characterization of Blackbeard as a steampunk pirate seems out of place — the pirates sing rock songs while mining, and Blackbeard is outfitted with feathery jackets, a carefully sculpted mustache, and a few too many ruffles.

The plot is straightforward with substantial fast-paced action, but lacks inventiveness. For being a prequel to a story as celebrated as Peter Pan, I expected more than a cliche story of an orphan boy who loses his mother and finds his destiny. The film does not have a confusing storyline, and there are no gaping plot holes, but it felt rather bland, making me wish that the screenwriters borrowed some creativity from the special effects department.

Nevertheless, Pan brought me back to my elementary school days, when I had ****

Pan

Directed by Joe Wright

Starring Levi Miller, Hugh Jackman, Garrett Hedlund, **Rooney Mara**

Rated PG

Now Playing

adored the Disney-animated version of Peter Pan, aspiring to be a pixie-dust wielding fairy one day. While the film wasn't the ultimate prequel that I was hoping for, it was still a fun, hour-and-a-half escape to

CONCERT REVIEW

A rousing mixture of old and new at the BSO

Musical director Andris Nelsons continues to impress in his second season

By Carolyn Fu

ength, following its successful season opener with another exceptional program — putting together a new composition by Sebastian Currier, Beethoven's Piano Concerto No. 3 in C Minor, and a particularly spellbinding rendition of Brahms' Symphony No. 2.

Currier's Divisions was co-commissioned by the BSO, the Seattle Symphony Orchestra, and the National Orchestra of Belgium in commemoration of the 100th anniversary of World War I. It premiered in April 2015 in Seattle and made its Boston debut last Thursday as the first Currier work to be performed by the BSO. As suggested by the title, Currier's intention was to explore how the division between people — represented by the fragmentation of the orchestra by instruments, melody, rhythm, and so on — can lead to war, but also to human ingenuity and altruism.

The result was a beautifully thoughtful

then retreat, then overlap again, as if stumbling into misunderstandings that they were unsure how to proceed from. Soon these occasional conflicts erupted into an orchestra-wide cacophony, which then transitioned into one of the most rhythmic and uniform segments of the piece - perhaps mirroring the unfortunate rhythm humanity finds in seeking an eye for an eye.

Amidst this, a distinctly elegiac phrase soared over the rest of the orchestra, which then became the foundation of the piece's melancholic second half. Again, it transitioned from isolated melodies to a unified one, but this time conjuring a shared mourning rather than anger. This ended with a series of sevenths leading to ephemeral eighths, highlighting an impending chaos underlying the tenuous peace. Poignantly, the piece finished without ever finding resolution.

The next piece was Beethoven's Piano

 Vogt is far more energetic where Nelsons is fluid — which in the first movement, proved somewhat problematic. The piano was in large part interwoven beautifully with the orchestra, but there were moments of asynchrony, where the melodies competed instead of enhancing one another. However the ensuing movements were flawless - with the second forcing both together into more languid territory, and the third, more spirited. The piece concluded with an enthusiastic standing ovation.

The final gem of the night was Brahms' Symphony No. 2, which was an incredible display of Nelsons' virtuosity as a conductor. The piece is one of Brahms' more pastoral and positive works, but which he apparently wrote with a great deal of irony, referencing an idyll that has been lost or soon will be. Consequently, the symphony is much less a description of joy than it is

depiction of the nature of conflict. Sections Concerto No. 3, played by guest artist Lars a story of its triumph, which Nelsons carof the orchestra started with distinctly sepa- Vogt. Vogt and conductor Andris Nelsons ried his captive audience through. He has The Boston Symphony Orchestra moves rate melodies, which then began to overlap, produced an interesting contrast of styles a unique way of structuring the music such that it is not so much the assembly of individual parts, but rather a continuous whole which he gently molds to expose different textures. The resulting experience is profoundly immersive, such that as the piece ended on its final triumphant measures, I released a breath I had not realized I was holding, and with it, tears of joy.

> Currier, Beethoven, and Brahms

Boston Symphony Orchestra

Symphony Hall October 8, 2015



ARTS ARTS ARTS ARTS ARTS

Teenager shot by an ideology reveals some personality

Who is Malala?

By Jisoo Min

Nobel Peace Prize laureate Malala. This 18-year-old girl is known as an activist who speaks up for female education and equality. After learning the importance of education through her parents, who ran several schools in Pakistan, she blogged for the BBC and stressed educational equality to the public. She survived a shooting by the Taliban at the age of 15.

The documentary movie *He Named Me Malala* attempts to reveal the individual at an intimate level through interviews with her and her family. During a press conference, director Davis Guggenheim explained how he hoped to get to know the person Malala: without a camera and purely through conversation.

Malala is more or less like any other person; she plays a role as a daughter, a sister, an immigrant, and a student. That is clearly depicted through Malala's everyday life. However, when it comes to other topics, like the Pakistanis claiming that Malala is

fabricated and that her stances and persona are unoriginal, the movie remains ambivalent on the complicated issues behind her. Whether Malala's belief is fully independent from her father's, as many ask, is left an enigma.

The briefly revealed, ordinary aspect of Malala (as opposed to her charismatic persona) is not disappointing. It is rather interesting to the public. Her persistence, humbleness, and humor all in one package in the form of her unique three-dimensional identity are a pleasant surprise to the viewer. But the movie fails to dig deeper into how Malala's character and motivation relate to what she has achieved.

Malala occasionally shies away from expressing her thoughts and feelings, even during the interviews in which the interviewer and the public want to know her as a person. Often, she answers "I don't know" with a little shrug. She seems to be well rehearsed for public speeches but not so much for personal interviews. Because hardly any of the conversations goes deeper than Mala-

la's superficial answers, the movie becomes repetitive and obvious.

During a Q&A session, Guggenheim discussed his vision in making the film. He felt there was something powerful to the shocking and captivating work that Malala has done. Guggenheim said that he was so drawn by Malala's idea of being courageous that he wanted to understand what created Malala's courage and what it took to do this. But I am not sure if Guggenheim has found the answers to his questions and if he has delivered what he discovered.

On the bright side, the movie achieves the goal of sounding a positive note for humanity. Malala is willing to lose whatever she must as long as she can demand equal education in the world. She is not afraid of the cost that she has to pay for her beliefs. "It doesn't matter if I can't smile or blink properly," Malala stated, valuing humanity and forgiveness over her personal comfort. She even points out that she tells her story not because her life or view is unique, but rather because it is shared by everyone.

He Named Me Malala

Directed by Davis Guggenheim

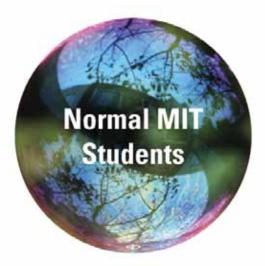
Starring Malala Yousafzai, Ziauddin Yousafzai, Toor Pekai Yousafzai, Khushal Khan Yousafzai, Atal Khan Yousafzai

Rated PG-13

Now Playing

Perhaps the full resolution of this 18-year-old's character and heart is too rich to be captured in a single film. This movie defers our hope to get to know Malala better.

Do you live *outside* the bubble?

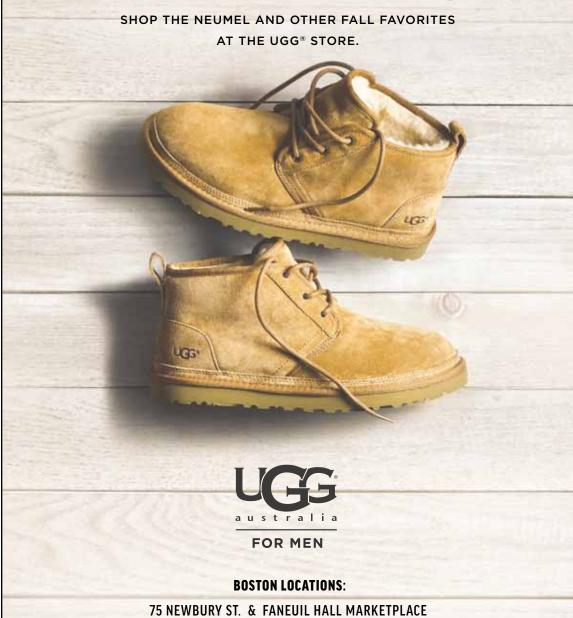


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Bernie

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O'Malley

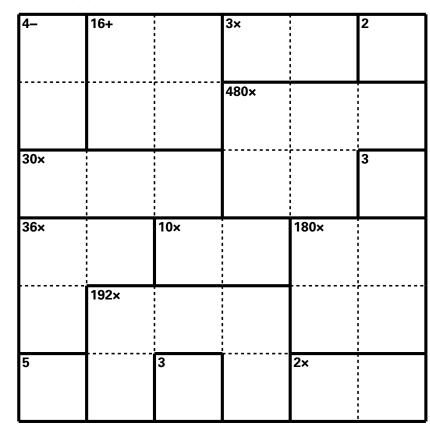
Solution, page 11

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Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Hillary

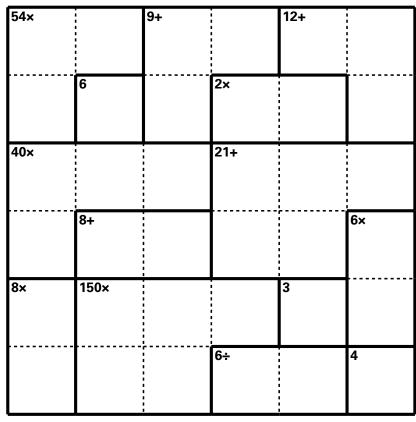
Solution, page 11



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

Chafee

Solution, page 11



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

Bossy by Fred Piscop

ACROSS

1 Ice picker-uppers

6 Cappuccino froth 10 Declare firmly

14 Be wild about

15 Alternatively

16 Latvia's capital

17 Studio release

18 Blood vessel

19 Right-angle shapes 20 Endured an ordeal

23 Pronoun for a yacht

24 Chicago airport

25 Social strata

29 It's a Wonderful Life director

32 English horn cousin

33 Witch trials site

34 Newspaper inserts, often

37 Worked a busy intersection, say

41 Gobbled up

42 Shop talk

43 Buddhist cleric

44 Inferno poet

45 Red table wine 47 Reject rudely

50 Simpsons bartender

51 Barely got by

__ spumante 59 Commencement attendee

60 "Amazing!"

62 MGM mascot

63 Donated

64 On one's toes

65 Cuts off, as branches 66 Hold back, as the tide

67 Approvals

DOWN

1 Highlands hat

2 Fragrance

3 PBS science series

4 Big grin

5 Get angry

6 Flu symptom

7 Designer Cassini 8 Sinai's continent

9 Diner handout 10 Franklin of soul

11 Rural retreat

12 Rude observer

13 Fritter away 21 Guys

22 Designer Kamali

25 Musical closing

26 Not too much

27 Holding a grudge 28 Golf gadget

29 Scrounge 30 Choral voice

31 According to

33 Fired off 34 Way out there

35 FDR's coin

36 "Vamoose!"

38 Trolley sound 39 Metal in pewter

40 St. Pete's state

44 Tuckers out

45 End of NBC's URL

46 Wiggle room

47 Lilliputian

48 Timex rival 49 In first place

17 18 19 24 23 25 | 26 | 27 | 28 29 30 31 32 34 | 35 | 36 37 38 | 39 41 43 42 45 | 46 47 48 49 51 52 53 54 55 56 57 58 59 60 62 64 63 65 66 67

50 Entrée to the Web

52 Custard base

53 "Darn it!" 54 Set aside 55 Woodpecker's creation

56 Has unpaid bills

57 Fence material, maybe

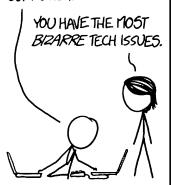
61 Sci-fi beings: Abbr.

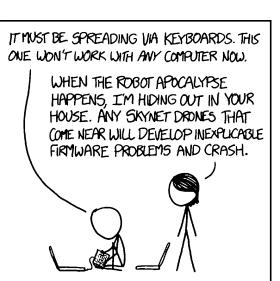
[1586] Keyboard Problems

KEYS ON MY KEYBOARD KEEP FAILING EVEN WHEN I BOOT FROM AN EXTERNAL RECOVERY DISK.



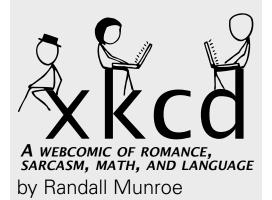
YEAH...EXCEPT THE PROBLEM FOLLOWED ME FROM MY LAST COMPUTER.





upgrade it.

In the future, a group of resistance fighters send me back in time with instructions to find the Skynet prototype and try to



[1589] Frankenstein

LIKE MANY PEOPLE, I'M TIRED OF THE NITPICKING ABOUT FRANKENSTEIN'S MONSTER'S NAME.

LUCKILY, FRANKENSTEIN 15 PUBLIC DOMAIN.

> THEREFORE, I PRESENT

XKCDS RANKENSTEIN

(THE MONSTER'S NAME)



THERE. FEEL FREE TO CALL THE MONSTER "FRANKENSTEIN". IF ANYONE TRIES TO CORRECT YOU, JUST EXPLAIN THAT THIS COMIC IS YOUR CANONICAL VERSION.

THANK YOU.

o fin.a

"Wait, so in this version is Frankenstein also the doctor's name?" "No, he's just 'The Doctor'"

Saturday Stumper by Brad Wilber

Solution, page 3

ACROSS

- 1 Reduces the lead of
- 14 They're often found in trees
- 16 Moat wall
- 17 Lost manuscript debated by bardolaters
- 18 Plumbing nuisance
- 19 Seatless transport 20 Darwin subject
- 22 Bigger picture, briefly
- 23 Mayan calendar symbol
- 24 Wealth 25 1968 Michener travelogue
- 27 Game or place with
- flushes 29 Amman-to-Damascus dir.
- 30 Prague premiere of 1921
- 31 One creating menus 34 Uneasy feeling
- 36 Survey unabashedly
- 37 Be conspicuous
- 41 Goldenrod backdrop
- 43 Professional org. that publishes What Would Florence Do?
- 44 Chick hatched by its father

- 45 Food processor
- 48 Bunk
- 51 61 Acro
- 53 1970s dollar-coin honoree, for short
- 54 Destiny shapers, to some
- 57 Nautical direction
- 58 Needle holders 60 1995 SNL departure
- 61 Franchise turning 50 next year
- 62 Role for Brando, Burton and Burr
- 63 Word from the Greek for "trance"

DOWN

- 1 What hip lifts work
- 2 It bought CrashPadder in 2012
- 3 Metered dose delivery system
- 4 Approaching
- 5 Ghost guy
- 6 Crazy Horse or Red Cloud
- 7 Strapped 8 __ case

- 9 What about 23% of the world believes in
- 11 Smile descriptor
- 12 Site of Sergeant York's heroics
- 13 Milton's "sage and serious Poet"
- 15 Flour, for instance
- 21 Son of Ares
- 23 Postal Service parcel measure
- 26 Torpedo
- 28 Small-screen gasp
- 31 Hex
- 32 Soften
- 33 Not under the table
- 35 Hard part of physics 37 Eugene Onegin soprano
- 38 Still out
- 39 Lock protection
- 40 Widely accepted medieval
- money
- 42 What Hollande is co-prince of
- 45 Town around 60 miles from Bordeaux 46 Singer named for the
- 16 18 19 20 25 34 37 | 38 | 39 43 48 54 57 61 62
- Count of Monte Cristo 47 Adage omen derived from Matthew 16
- 49 Nome di sei papi
- 50 Fortune's "Most Innovative Company," 1995-2000
- 52 Its clock has read 10:30
- since 2013
- 55 Keep from
- 56 Its 1994 round covered intellectual property for the first time
- 59 FL billboards display their current wait times

COD simplifies sexual assault adjudication process

New peer-to-peer programs expected to increase sexual awareness on MIT's campus

Sexual assault, from Page 1

cates increased awareness about what constitutes misconduct, and better knowledge about where to go for help. We also think more students now understand they have access to resources where they can share personal, sensitive information and get the support they need."

Changes at the Committee on Discipline

The Committee on Discipline adjudicates complaints against students and student organizations and has the power to suspend or expel students based on hearings. Seventeen members, composed of a mix of undergraduate students, graduate students, faculty, and staff, sit on the committee. While these complaints include cases of sexual misconduct, relatively few of the students who talk to the Title IX Office or VPR choose to ultimately go through the COD process.

In an interview with *The Tech*, Director of Student Citizenship Kevin Kraft noted that he recognizes this as an issue. To help mitigate this overall reluctance to report, Kraft has led efforts to streamline the COD process and make it easier for students to report and go through a sexual misconduct case. By the end of this month, the COD will be implementing an entirely new process for how it will handle sexual misconduct cases.

"In the old process, what you would have to do is sort of prepare your whole case yourself and present your whole case yourself," Kraft said. "Now, with the addition of the Title IX Office and Title IX investigators, we've professionalized that so that instead of kind of coming to this adversarial meeting, where

your complainant says one side of the story, and the respondent says another side of the story, we've had the case professionally investigated already in a much lower-stress environment."

Students who submit sexual misconduct complaints will have the opportunity to meet one-on-one with a Title IX investigator who then will help the student parse out the important details in the case.

Another important change will be the decrease in time it takes to go from the initial complaint through the investigation to the final resolution

An important change will be the decrease in time it takes to go from the initial complaint to the final resolution.

"In the old process, you'd have to get 10 business days to write your statement and you'd have to get 5 business days before the hearing and all these things that made it take a very long time," Kraft said. "But because this is all an interactive process during the investigation — you're seeing evidence as it's coming in, you're having opportunities to comment on what the other person is saying, and that sort of thing — we've been able to streamline a lot of that and that's been helpful."

A final important improvement is the decrease in intimidation that sexual misconduct complainants will experience during the actual process itself.

If the two parties do not dispute the Title IX investigator's report rec-

ommendation, then the complainant will not need to come before the COD at all. If a dispute arises, however, the complainant will come before a panel. Instead of placing seven members of the COD on the panel, however, only three will be there in the new process. These three members will have received extensive and specialized training in how to handle sexual misconduct cases.

For the academic year 2015-2016, a special subcommittee of six has been formed to receive this training. These are: Prof. Suzanne Flynn, Prof. Halston Taylor, Prof. Andrew Whittle PhD '87, Blanche Staton, Julie Rothhaar-Sanders, and Brian Canavan. Any hearing panel will be composed of three of these members, with at least one faculty member and one staff member. No students will be on the sexual misconduct subcommittee.

"This is something that requires a lot of specialization and a lot of expertise," Kraft said. "We don't want just any person, any random faculty, student, or staff member getting on these committees and making whatever decision."

In addition, unlike in the old process, the complainant and the respondent will be kept in separate rooms and allowed to communicate through technology and video feeds.

According to the most recent COD Annual Report to the Chair of the Faculty and President of the Institute, the number of COD sexual misconduct cases increased from four to nine between the academic years of 2013-2014 and 2014-2015. However, there was a decrease in the number of expulsions (1 to 0) and suspensions/degree deferrals (7 to 5) within the same time frame.

Peer-to-peer programs

Last November, MIT's studentrun "It's On Us" campaign kicked off. MIT's chapter is part of a national initiative to promote sexual assault awareness on college campuses. This fall, a new program for undergraduates called Pleasure (Peers Leading Education About Sexuality & Speaking Up for Relationship Empowerment), and a peer ambassador program for the graduate student community have launched.

According to Kate McCarthy, program director of VPR, Pleasure was created in response to comments that students submitted as part of the CASA survey.

"Students said over and over again they needed to learn foundational skills in order to have healthy, consensual sexual encounters," McCarthy said. "The Chancellor recognized the importance of this input and added staffing to Violence Prevention & Response (VPR) to support the creation and implementation of a peer education program."

Vienna Rothberg currently heads VPR's Pleasure program. Rothberg started recruiting in the spring shortly after being hired, forming a group of undergraduate and graduate students to serve on an advisory board. Since then, eleven students have been trained as peer educators. Pleasure launched in Random Hall this month

seminars with activities ranging from discussion to role-playing.

"We want to normalize discussions about sex and relationships so that people don't find these conversations awkward or giggle-worthy, and to encourage people to have these conversations with each other," she told *The Tech*. "We want people to have fun in their relationships, whatever form they may be, and to respect each other and be happy."

Attendance is an issue, but she adds that "the feedback has been fairly positive from those who have shown up, and people seem excited for the next set of presentations that we'll be doing in November."

To help target the graduate community, VPR has created a peer ambassador program that is expected to launch in November in Eastgate and Westgate, MIT's two graduate student family residences. Program head Amanda Hankins formed an advisory board over the summer and has been working with the executive teams at Eastgate and Westgate along with a few of the graduate courses to launch the peer ambassador program.

Peer ambassadors will include graduate students as well as spouses and partners. The program is partially supported by a \$10,000 grant from the Avon Foundation. According to McCarthy, there will be a display

Barnhart expects that a follow-up survey will be sent out in the 2016-2017 academic year.

Lucia Lam '17, one of the peer educators, said she joined Pleasure over the summer on a whim, and decided to stay because she realized it was a topic she cared about. Pleasure consists of a series of student posted on ambassadors' doors or labs that demonstrates that they're a person someone can talk to.

'What we know about peer-to-

Sexual assault, Page 11

COMPUTERS - HI TECH - HAM RADIO

SWAPFEST.

NOW the THIRD SUNDAY of EACH MONTH ALL SUMMER

BARGAIN ELECTRONICS - SOFTWARE

COMPUTERS - RADIO PARTS - HARDWARE

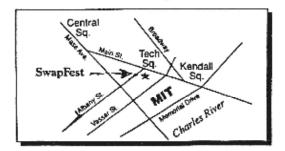
Sunday October 18th

- Buy Sell Swap - 9 AM to 2 PM

Albany and Main Streets, Cambridge TAILGATE ROOM FOR OVER 200 SELLERS Rain or Shine — Garage Available

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SELLERS \$ 20 per space includes 1 admission



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VENDORS
from all of
New England

APUR APHU

Come early for BEST BARGAINS

Sponsored by: W1MX, the MIT Electronics Research Society, W1XM/R and the Harvard Wireless Club

Sexual assault, from Page 10

peer programming is that it's really well-received, not only for the people who are receiving it, but really a lot for the peers as well," said Mc-Carthy. "It really helps them sort of grow and become leaders in a topic that maybe they weren't before they started. We're really excited to see what happens."

Barnhart added: "It's a fantastic way to expand our reach. Of course, we have a limited budget. We can't hire as many people as we would love to. By tapping into the students, it really amplifies the voice."

Presidential Committee on Sexual Misconduct

According to Barnhart, a presidential committee on sexual misconduct will be formed by the end

of this month, taking the place of the Sexual Assault Education and Prevention Task Force. This initiative comes from a recommendation made by McCarthy and Rankin on behalf of the task force earlier this year. According to the Chancellor's Office, the standing committee is expected to "spearhead and assess [MIT's] responses to sexual assault for the long-term."

Prof. David Singer was appointed chair of the committee earlier this month. The ultimate makeup of the committee will include students, staff, and other faculty members.

'The idea is that this committee will be responsible for ensuring that we act, and kind of take that roadmap and deliver on it, and also further assess what's happening, develop new strategies of things we should be trying," Barnhart said.

Next steps

Barnhart expects that a followup survey will be sent out in the 2016-2017 academic year. For this survey, she said that questions will be added or changed to better pinpoint where sexual assaults tend to occur on campus, something that was notably missing from the first CASA survey.

Over four-fifths of the undergraduate respondents to the CASA survey who had experienced unwanted sexual behavior said it had occurred "on campus," but this term was very loosely defined and included dormitories as well as fraternities, sororities, and independent living groups. In terms of where the attacks occurred among the living groups themselves, the

survey made no distinction.

"If we a have concern that there's a particular community, be it a fraternity or another living community or a club or a group or whatever it is, then part of what the Title IX Office is trying to do is look at the holistic picture of MIT and figure out where are these areas where we have an opportunity to go in and do some prevention and education," Rankin said. "We have done that a number of times."

'Maybe the most powerful impact we can have is by tapping into the resources that are our students," Barnhart said. "We know from experience that students definitely rely on each other and learn from each other and so we're using that dynamic of our community to strengthen our impact, our educational impact."

Medical, from Page 1

October 2014 when William Kettyle announced he would step down from the post.

Kettyle, Stuopis's predecessor, has worked at MIT Medical since 1993.

"Under his leadership, MIT Medical expanded its services to provide care for the entire MIT community, extended its connection to students, and increased involvement community in preventive care," Ruiz wrote in an email when Kettyle first announced that he would step down.

—William Navarre

Solution to Bernie

from page 8

7	2	4	1	9	6	8	3	5
5	6	9	3	8	2	1	4	7
1	3	8	5	7	4	9	2	6
2	8	5	9	6	7	4	1	3
9	1	3	4	5	8	7	6	2
6	4	7	2	3	1	5	9	8
4	7	2	6	1	5	3	8	9
8	9	1	7	2	3	6	5	4
3	5	6	8	4	9	2		1

Solution to Hillary

from page 8

6	5	4	7	3	2
2	1	6	3	5	4
1	6		2	4	3
4	3	2	5	1	6
3	2	1	4	6	5
5	4	3	6	2	1

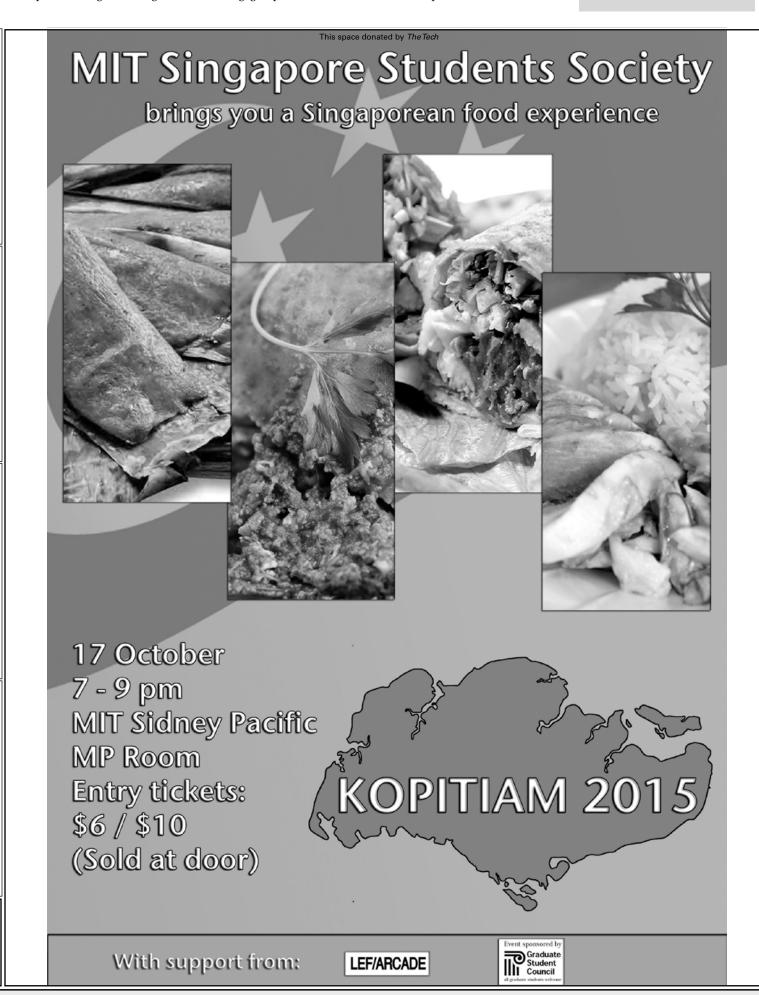
Solution to O'Malley

5	3	2	7	1	9	6	8	4
4	9	1	5	6	8	3	2	7
8	6	7	4	3	2	9	1	5
3	1	6	9	7	5	8	4	2
2	4	5	3	8	1	7	9	6
9	7	8	6	2	4	1	5	3
1	5	3	8	4	6	2	7	9
6	2		1					8
7	8	9	2	5	3	4	6	1

Solution to Chafee

4







Got a lot on your mind?

Share some thoughts with us! Write for Campus Life. join@tech.mit.edu

SSPORTS SPORTS SPORTSS

SPORTS SHORT

October, week 2

Women's soccer

Allie Hrabchak '19 scored the solitary goal of the game to lead MIT past Wellesley on Tuesday, Oct. 13. With the win, MIT improved to a 8-5-2 record overall and a 5-1-0 in the NEWMAC.

Men's soccer

Kareem Itani '17 scored in the 93rd minute as MIT clinched a tightly contested affair against Wheaton 3-2 on Oct. 10. Bingham '16 scored twice for MIT as goalie Jake Amereno '16 conceded for the first time in 630 minutes.

Cross country

Men's: Dennis Maloney '19 and Daniel Weiss '19 finished 29th and 38th overall to lead MIT to a second-place finish among Div. III teams at the NEICAAA Championship this past Saturday.

Women's: Maryann Gong '17

finished 11th overall and second among Div III. athletes to lead MIT to a fifth-place finish overall (first in Div. III) at the NEICAAA Championship, held at Franklin Park.

Sailing

The MIT sailing team finished seventh at the Moody Trophy over the weekend. In the A Division, Joe Paggi '16 and Elizabeth Zhang '16 finished fifth with 44 points while in the B Division, Cutter O' Connel '18 and Christopher Ford '16 finished 11th, amassing 68 points.

Water polo

MIT split a doubleheader this weekend, losing to Brown 7-11 while turning the tables on Connecticut College 17-4.

Ory Tasman '16 and Kale Rogers '16 each scored four times over the weekend.

—Souparno Ghosh



Kathryn A. Notarangelo '18 chases after the ball this past Saturday. The MIT Engineers beat Clark

Women's tennis finishes regular season unbeaten

Team remains unbeaten for 4th straight season

By Phil Hess

MIT women's tennis team completed its New England Women's and Men's Athletic

> Conference (NEW-MAC) regular season undefeated after blanking Smith College 9-0. It is the fourth-consecutive season and

the seventh overall that MIT has finished its NEWMAC slate undefeated.

MIT (8-0, 8-0 NEWMAC) quickly went up 2-0 in the contest after capturing both the No.

1 and No. 2 doubles matches by identical 8-1 scores. Smith (3-6, 2-6 NEWMAC) saw its No. 3 team of freshmen Janan Fugel and Morgan Barney stay with MIT's duo of Ava Soleimany '16 and Iris Zhuang '16 early before the Engineers pulled away for an 8-4 victory.

Moving to singles play, the top two flights clinched the match for MIT. Elysa Kohrs '17 picked up the first singles point for the Engineers, taking her No. 1 match by a 6-0, 6-0 score over freshman Noa Dubin. At No. 2 Dora Tzeng '18, then picked up the match-clinching fifth point of the day, taking a 6-1, 6-0

Playing at Nos. 4 and 6, Zhuang '16 and Soleimany '16 also took 6-1, 6-0 victories to move MIT to a 7-0 advantage. At No. 5. Barney stayed close to Rena Liu '18 early on only to see Liu '18 pull away to take a 6-4, 6-1 win. Sonya Das' 18 finished things up at No. 3, taking a 6-3, 6-2 win over sophomore Samantha Peikes.

With conference regular season play completed, both MIT and Smith will next compete at the annual New England Women's Intercollegiate Tournament that will be held next weekend, starting on Friday, Oct. 16.



LENNY MARTINEZ—THE TECH

Selin E. Selman '19 runs for the ball during the game this past Saturday against Clark University. The MIT Engineers beat Clark 4-0.

MIT field hockey blanks Clark 5-0

Hat-trick scored by Tregoning '19

By Mindy Brauer

A hat-trick by Bailey Tregoning '19 coupled with a solid defensive performance from Jane Coffrin '18

helped propel the MIT field hockey team to a 5-0 victory over Clark University in a NEWMAC contest on Saturday. With the win, the En-

gineers improved to 8-2 on the year and 4-0 in conference play while the Cougars dipped to 5-7 overall and 1-3 in the NEWMAC.

MIT finished the game with a commanding 24-4 advantage in shots, a 17-1 margin in shots on goal, and produced 18 penalty corners while Clark was unable to earn a penalty corner for the first time this season. Goalie Evie Kyritsis '16 turned away one shot as she recorded her fifth shutout of the season for the hosts. Senior Christine Tinsman collected 11 saves while sophomore Haley Mahan bolstered the backline with a defensive save.

Tregoning '19 produced a pair of shots in the opening minute as the Engineers went on to pressure the Cougars' defense for the next five minutes, collecting five penalty corners during that span. Clark nearly broke the deadlock moments later courtesy of a deep run bv freshman Olivia Barksdale but Coffrin slipped in to steal the ball.

MIT replied by scoring off its th penalty corner of the game when Katie Notarangelo's '18 shot ence foe Smith College.

from the top of the arc deflected off a defender's stick into the top of the cage in the 12th minute. The Engineers doubled their advantage five minutes later following another penalty corner. After receiving a pass from Molly McNamara '16, Notarangelo '18 found Tregoning '19 for the redirection at the near

The Cougars almost ended the shutout 48 seconds into the second stanza but junior Lauren Mackey's bid was blocked by a defender. The Cardinal and Gray responded by increasing its margin to 3-0 courtesy of a penalty stroke by sophomore Emily Penn '18in the 44th minute. Shortly after action resumed, junior Olivia Cotton produced Clark's lone shot on goal that was kicked away by Kyritsis '16.

Tregoning '19 then wrapped up the scoring for MIT by finding the back of the net in the 53rd and 57th minutes. Her first marker was a solo breakaway effort along the far side that resulted in a shot at the near post. Tregoning '19 completed the first hat trick of her career when McNamara '16 slipped a ball from the near side through the arc for the quick tip at the far post.

The Cougars threatened to get on the scoreboard with just over 14 minutes left to play courtesy of a 4-on-2 fast break initiated by junior Julia Baud. However, Notarangelo '18 stole the ball at the top of the arc to thwart the attack.

MIT returns to action on Saturay, Oct. 17 with a trip to confer

Do you like doodling during class? Are your psets covered with drawings? If so, become a Tech Illustrator!

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New-look Bruins have season cut out for them

Following major trades in the off season, making playoffs will be tough for the B's

By Yueyang Ying

Following a fifth-place finish in the Atlantic Conference last season, which saw the Boston Bruins narrowly miss the playoffs, the Bruins' front office set in motion a mini-rebuilding phase as they seek their first Stanley Cup triumph since 2011-12.

Former assistant general manager Don Sweeney was promoted to general manager. The former Harvard star looks to reverse the Bruins' downward spiral from last year. Sweeney's expectations for the team will not be easy to meet, as he wants to "bring the Bruins back to the forefront of contending for the Stanley Cup."

The Bruins' approach toward big-name trades can hardly be described as hesitant. Just two years ago, they rather confidently traded rising offensive star

Tyler Seguin to the Dallas Stars. Now, he is a two-time All-Star and one of the most prolific offensive players in the NHL. However, even for the Bruins, trading Milan Lucic, Dougie Hamilton, Carl Soderberg, Reilly Smith, and Gregory Campbell in the same off-season was eye-popping.

While Lucic was on the final year of his contract and it was probably a smart move to replace him with up-and-coming

players from the first-round draft pick, the loss of Hamilton and Soderberg could prove to be detrimental to the franchise's immediate future. After all, Lucic, Soderberg, Smith, and Hamilton accounted for 54 of 213 goals last season, according to the Bleacher Report.

In the preseason, the newlook Bruins showed enough fire in their bellies, going toe-to-toe with the likes of New York Rangers, but in the end managed to win just four out of seven games. In addition, all four victories came at the beginning of the preseason.

Overall, the Bruins should be a competitive outfit this season, but ultimately, down the stretch, they might not yet be ready for a place in the spotlight. Expect a season of ups and downs, most likely culminating in a fifth-place finish in the Atlantic Conference.